

NASA JOHNSON SPACE CENTER ORAL HISTORY PROJECT

BIOGRAPHICAL DATA SHEET

NAME: Aleck Constantine Bond

ORAL HISTORY: 25 August 1998
3 September 1998
15 July 1999

EDUCATIONAL BACKGROUND:

BS in Aeronautical Engineering, Georgia Institute of Technology, Atlanta, Georgia, 1943
MS in Aeronautical Engineering, Georgia Institute of Technology, 1948

MILITARY EXPERIENCE:

Quartermaster, United States Army
Sergeant, United States Air Force (1946)

PRE-NASA CAREER:

Bell Aircraft Company, Marietta, Georgia (1943-1945)
Wing Design and Liaison Engineer
NACA Langley Research Center, Hampton, Virginia (1948-1958)
Aeronautical Research Scientist, Pilotless Aircraft Research Division (1948-1958)
Head, Performance Section (1952-1955)
Head, Structural Dynamics Section (1955-1958)

NASA CAREER:

NASA Space Task Group, Langley Research Center, Hampton, Virginia (1958-1960)
Aeronautical Research Scientist, Project Engineer (1958-1959)
Head, Performance Branch, Flight Systems Division (1959-1960)
NASA Manned Spacecraft Center/ Johnson Space Center, Houston, Texas (1960-1982)
Assistant Chief, Flight Systems Division (1960-1962)
Chief, Systems Evaluation and Development Division (1962-1963)
Manager, Systems Test and Evaluation (1963-1967)
Manager, Flight Safety and Reliability and Quality Assurance Offices (1967-1968)
Assistant Director, Chemical and Mechanical Systems (1968-1975)
Assistant Director, Program Support (1975-1982)

POST-NASA CAREER:

Technology Coordinator Consultant, Technology Application Center, Albuquerque, New Mexico

CURRENT OCCUPATION: Unknown

PROFESSIONAL & HONORARY SOCIETIES:

- Associate Fellow, American Institute of Aeronautics and Astronautics
- Phi Kappa Phi (Honorary Academic Society)
- American Hellenic Professional Society
- American Hellenic Education Progressive Association

AWARDS & CITATIONS:

- Ogelthorpe Award for High Point Average, 1943
- NASA Group Achievement Award, Mercury, 1962
- MSC Certificate of Commendation, 1965
- NASA Exceptional Service Medal, 1969
- NASA Apollo Achievement Award, 1969
- Apollo Group Achievement Award, 1969
- Nonflammable Materials Development Team Award, 1972
- NASA Distinguished Service Medal, 1973
- Skylab Team Award, 1972
- Skylab Emergency Thermal Shield Development Team- Group Achievement Award, 1974
- JSC Special Achievement Award, 1976
- NASA Outstanding Leadership Award, 1981

SELECT PUBLICATIONS:

Bond, Aleck C. and J. G. Thibodaux, Jr. "Flight Test of the Aerojet 7KS-6000 T-27 JATO Rocket Motor." NACA RM SL9L13a. 20 December 1949.

Bond, Aleck C. "Experimental Investigation of a Flat-Plat Paddle Jet Vane Operating on a Rocket Jet." NASA RM L50I20. 15 November 1950.

Bond, Aleck C. "Flight Performance of a Twin-Engine Supersonic Ram Jet From 2300 to 67200 Feet Altitude." NACA RM L50L27.

Bond, Aleck C. and Andrew G. Swanson. "Rocket-Model Investigation of the Longitudinal Stability Drag, and Duct Performance of a 60 Delta-Wing Canard Aircraft with Twin Side Inlets at Mach Numbers from .80 to 1.70." NACA RM L53D10a. 29 March 1954.

Bond, Aleck C. and C. B. Rumsey. "Free-Flight Skin Temperatures and Pressure Measurements on a Slightly Blunted 25 Cone-Cylinder-Flare Configuration to a Mach Number of 9.89." NACA RM L57B18. 10 April 1957.

Bond, Aleck C., William V. Feller, and William M. Bland. "Aerodynamic Heat Transfer to Wing Surfaces and Wing Leading Edges." NACA RM L57D22. 5 June 1957.

- Bond, Aleck C. and Paul E. Purser. "NACA Hypersonic Rocket and High Temperature Jet Facilities." NACA N-5313Y. Scheveningen, Holland: 11th Annual Meeting of AGARD Wind Tunnel and Model Testing Panel, 8-12 July 1957.
- Bond, Aleck C., Bernard Rashis, and L. Ross Levin. "Experimental Ablation Cooling." NACA RM L58E15a. 15 July 1958.
- Bond, Aleck C., Dorothy B. Lee, and Charles B. Rumsey. "Heat Transfer Measured in Free Flight on a Slightly Blunted 25 Deg. Cone-Cylinder-Flare Configuration at Mach Numbers up to 9.89." NACA RM L58G21. 26 September 1958.
- Bond, Aleck C., and Alan B. Kehlet. "Review Scope and Recent Results of Project Mercury Research and Development Program." NASA Paper 60-35. New York: IAS 28th Annual Meeting, 25-27 January 1960.
- Bond, Aleck C. and Sigurd A. Sjoberg. "Post Launch Report for Mercury-Atlas No. 1/MA-1." NASA TM X-50740. 2 August 1960.
- Bond, Aleck C. and A. B. Kehlet. "Remarks on the Status of Project Mercury." October 1960.
- Bond, Aleck C. and E. M. Fields. "Project Mercury- Flight Test Report for Mercury-Atlas Mission No. 1 (Capsule No. 4)." NASA Working Paper 159. 4 November 1960.
- Bond, Aleck C., William M. Bland, and Sigurd A. Sjoberg. "Post Launch Report for Mercury-Atlas No. 2/MA-2." NASA TM X-50621. 13 March 1961.
- Bond, Aleck C. "Mercury Spacecraft Systems." N63-85160. 6 June 1961.
- Bond, Aleck C. "Results of the First U.S. Manned Suborbital Space Flight." 6 June 1961.
- Bond, Aleck C. "Mercury Spacecraft Systems- Conference on Medical Results of the First U.S. Manned Suborbital Space Flight." 6 June 1961.
- Bond, Aleck C. and Alan B. Kehlet. "Advisory Group for Aeronautical Research and Development." NACA N-8784I. 1961.
- Bond, Aleck C. and Robert L. O'Neal. "Heat Transfer to 0 Deg. And 75 Deg. Swept Blunt Leading Edges in Free Flight at Mach Numbers from 1.90 to 3.07." NASA TN D-1256. April 1962.
- Bond, Aleck C. and Maxime A. Faget. "Technologies of Manned Space Systems." Flight Test Manual NASA-MSC. 1965.

Bond, Aleck C. "Large Test and Evaluation Facilities at the MSC." Louisiana Polytechnic Institute: 5th Regional Aerospace Education Symposium. 4-5 November 1965.

Bond, Aleck C., James C. McLane, and John W. Conlon. "Prerequisites for Manned Testing." NASA Paper No. 1229. 2 April 1967.

Bond, Aleck C., W. Gillespie, J. G. Thibodaux, E. L. Hays, D. A. Florey, W. R. Downs, W. W. Kemmerer, and J. H. Kimsey. "Lunar Surface Materials Hazards Evaluation by Special Task Group." TM X-1398. July 1967.

Bond, Aleck C. "Manned Testing in the Simulated Space Environment." Presented to 1970 Survival and Flight Equipment Association Symposium. Las Vegas, Nevada. September 1970.

Bond, Aleck C., Henry O. Pohl, Norman H. Chaffee, Walter W. Guy, Charles S. Allton, Robert L. Johnston, William L. Castner, and Jack S. Stradling. "Design Guide for High Pressure Oxygen Systems." NASA Reference Publication 1113. August 1983.

Bond, Aleck C. "A Review of Man-Rating in Past and Current Manned Space Flight Programs." NAS 17900, 88-193. 20 May 1988.

Bond, Aleck C. and Bernard Rashis. "Free-Flight Skin Temperature and Surface-Pressure Measurements on a Highly Polished Nose Having a 100 Total Angle-Cone and a 10 Half Angle Conical Flare Section up to a Mach Number of 4.08." NASA TND-807.

BIOGRAPHICAL REFERENCES:

NASA Biographical Data Sheet, Aleck C. Bond Biographical File, History Collection, Scientific and Technical Information Center, Lyndon B. Johnson Space Center, Houston, TX.

NASA Biographical Data Sheet II, Aleck C. Bond Biographical File, History Collection, Scientific and Technical Information Center, Lyndon B. Johnson Space Center, Houston, TX.

Outstanding Qualities Document (11 January 1974), Aleck C. Bond Key Personnel File, Awards Office, Lyndon B. Johnson Space Center, Houston, TX.

Assistant Director for Program Support Nomination Recommendation (3 July 1975), Aleck C. Bond Key Personnel File, Awards Office, Lyndon B. Johnson Space Center, Houston, TX.

American Institute of Aeronautics and Astronautics Nomination Recommendation, Aleck C. Bond Key Personnel File, Awards Office, Lyndon B. Johnson Space Center, Houston, TX.

Who's Who in Aviation and Aerospace (New York: Warren, Gorham & Lamont Inc., 1983) s.v. "Bond, Aleck."

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